

To: Timothy Franquist Jr.[FranquistJr.Timothy@azdeq.gov]; Gerhardstein, Benjamin (ATSDR/DCHI/WB)[fty9@cdc.gov]; Leonard Drago[Drago.Leonard@azdeq.gov]
Cc: Feng Mao[Mao.Feng@azdeq.gov]; Naveen D. Savarirayan[Savarirayan.Naveen@azdeq.gov]; Vianu, Libby (ATSDR/DCHI/WB)[ljl8@cdc.gov]; Goodwin, Bradley Patrick (ATSDR/DCHI/SSB)[ylm5@cdc.gov]; Rodenbeck, Sven (ATSDR/DCHI/OD)[svr1@cdc.gov]; Balaji Vaidyanathan[Vaidyanathan.Balaji@azdeq.gov]; Chris Nutter[Nutter.Chris@azdeq.gov]; Robert Barnett[Barnett.Robert@azdeq.gov]; Laura L. Malone[Malone.Laura@azdeq.gov]
From: Balaji Vaidyanathan
Sent: Mon 5/8/2017 10:01:45 PM
Subject: FW: ADEQ point of contacts to discuss Hickman's Farms petition?
[Att. 1 Hickman NH3.ADO](#)
[Att.2 -Hickmans EPCRA complaint 1.0 - Complaint.pdf](#)
[Att 3. Hickmans NAEMS study IN2BSummaryReport.pdf](#)

Hi Ben. Here are the responses to your questions:

●□□□□□□□□ Do you have results for annual average concentrations?

In the previous modeling, ADEQ did not model the annual concentration for NH₃ because there is no standard to compare with it. In responding to the ATSDR's request, ADEQ reran the model for three averaging time periods (1-hour, 24-hour and annual) with the most recent version of AERMET (16216) and AERMOD (16216r). The maximum annual concentration is 1,051 µg/m³ which occurred at the fence line of the Tonopah facility.

●□□□□□□□□ Are AERMOD output files are available? If so, could you share them with ATSDR?

Please see the attached file (Att.1).

●□□□□□□□□ We are interested in learning more about the assumptions for the emission factors per bird and the number of birds at the facilities.

- ADEQ obtained the number of birds at the facilities from the EPCRA Complaint Document Case 2:16-cv-03319-JZB (please see Att.2. Pgs 3-4).

- ADEQ estimated the NH3 emissions based on the emission factor (0.282 g/day/head) obtained from the following study:

Ji-Qin Ni, Claude A. Diehl, Li-Long Chai, Bill W. Bogan, Erin L. Cortus, Teng Teeh Lim, and A.J. Heber. 2010. National Air Emissions Monitoring Study: Emissions Data from Two Manure Belt Layer Houses in Indiana - Site IN2B. Final Report. Purdue University, West Lafayette, IN, July 2 (please see Att. 3 Pg 35 Table 39)

Hope you find this helpful.

Thanks,

Balaji

From: Gerhardstein, Ben [<mailto:Gerhardstein.Ben@epa.gov>]

Sent: Thursday, May 04, 2017 9:05 AM

To: Timothy Franquist Jr. <FranquistJr.Timothy@azdeq.gov>; Gerhardstein, Benjamin (ATSDR/DCHI/WB) <fty9@cdc.gov>; Leonard Drago <Drago.Leonard@azdeq.gov>

Cc: Vianu, Libby (ATSDR/DCHI/WB) <lj18@cdc.gov>; Goodwin, Bradley Patrick (ATSDR/DCHI/SSB) <ylm5@cdc.gov>; Rodenbeck, Sven (ATSDR/DCHI/OD) <svr1@cdc.gov>; Balaji Vaidyanathan <Vaidyanathan.Balaji@azdeq.gov>; Chris Nutter <Nutter.Chris@azdeq.gov>; Robert Barnett <Barnett.Robert@azdeq.gov>; Laura L. Malone <Malone.Laura@azdeq.gov>; Tawnya Cook <Cook.Tawnya@azdeq.gov>

Subject: RE: ADEQ point of contacts to discuss Hickman's Farms petition?

Hi Tim/All,

Thanks for outlining ADEQ's points of contact. And good to know that you've done some recent air monitoring. We look forward to learning more.

Thanks also for working to set up a call. Unfortunately the Tues 5/9 3:30 – 4:30pm pacific timeframe isn't good for us because a couple of the people we'd like to include are in our

headquarters office in Atlanta, on eastern time. I'm happy to set up a scheduling poll or send you some times that work for ATSDR staff, if that would be helpful.

Best,

Ben

From: Timothy Franquist Jr. [<mailto:FranquistJr.Timothy@azdeq.gov>]

Sent: Wednesday, May 3, 2017 5:10 PM

To: Gerhardstein, Benjamin (ATSDR/DCHI/WB) <fty9@cdc.gov>; Leonard Drago <Drago.Leonard@azdeq.gov>

Cc: Vianu, Libby (ATSDR/DCHI/WB) <ljl8@cdc.gov>; Goodwin, Bradley Patrick (ATSDR/DCHI/SSB) <ylm5@cdc.gov>; Rodenbeck, Sven (ATSDR/DCHI/OD) <svrl@cdc.gov>; Balaji Vaidyanathan <Vaidyanathan.Balaji@azdeq.gov>; Chris Nutter <Nutter.Chris@azdeq.gov>; Robert Barnett <Barnett.Robert@azdeq.gov>; Laura L. Malone <Malone.Laura@azdeq.gov>; Tawnya Cook <Cook.Tawnya@azdeq.gov>

Subject: RE: ADEQ point of contacts to discuss Hickman's Farms petition?

Ben,

Thank you for letting us know. We be happy to send you any modeling information we have, including some recent monitoring we've done near the facility. I would the main point of contact, but Balaji will be the contact for the modeling information and Chris will be the contact for the monitoring information. I'll ask my executive assist to the schedule the call for next week.

Tim

Timothy S. Franquist, Director

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From: Gerhardstein, Benjamin (ATSDR/DCHI/WB) [mailto:fty9@cdc.gov]
Sent: Wednesday, May 3, 2017 11:33 AM
To: Leonard Drago <Drago.Leonard@azdeq.gov>; Timothy Franquist Jr. <FranquistJr.Timothy@azdeq.gov>
Cc: Vianu, Libby (ATSDR/DCHI/WB) <ljl8@cdc.gov>; Goodwin, Bradley Patrick (ATSDR/DCHI/SSB) <ylm5@cdc.gov>; Rodenbeck, Sven (ATSDR/DCHI/OD) <svrl@cdc.gov>
Subject: ADEQ point of contacts to discuss Hickman's Farms petition?

Dear Tim and Len,

I wanted to let you that ATSDR recently received a petition from two groups, Don't Waste Arizona and Save Tonopah Oppose Poultry Plan (STOPP), to conduct a public health assessment of ammonia emissions from Hickman's Egg Farms facilities in Tonopah and Arlington, Arizona. We are in the process of reviewing the petition and gathering additional information to help ATSDR decide whether or not to conduct public health assessment activities. (General information on the ATSDR petition process is available [here](#).)

The petitioners provided ATSDR with the attached preliminary air modeling results and said that ADEQ had performed the analysis. We have some general questions about ADEQ's work related to these facilities and some specific questions about the modeling. Can you point us to the best ADEQ point of contacts? I'd like to set up a call, ideally for next week.

Here are some of the technical questions we have about the modeling results:

- ☐ ☐ ☐ ☐ ☐ ☐ Do you have results for annual average concentrations?
- ☐ ☐ ☐ ☐ ☐ ☐ Are AERMOD output files are available? If so, could you share them with ATSDR?
- ☐ ☐ ☐ ☐ ☐ ☐ We are interested in learning more about the assumptions for the emission factors per bird and the number of birds at the facilities.

Thanks in advance for your help.

Best,

Ben

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Ben Gerhardstein, MPH

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